

**Maxium Reach:3240 mm /  
Wrist / Max Payload:16 kg**

An economical painting robot, non-explosion-proof structure design;  
Orthogonal spherical wrist structure, large load, high stiffness, wide working range;  
Default painting application software , built-in I/OS, easy integration, simple programming;  
Especially suitable for painting furniture, large tank, board and frame parts;  
Non-explosion-proof robot.

Specially designed for flat workpiece and similar application scenarios: such as wood doors, window frames, pipes, etc;  
Also can be used for multi-size regular parts spraying, such as containers.

Suitable for furniture, logistics and other industries.



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## SPECIFICATIONS

|                                    |     |                       |               |
|------------------------------------|-----|-----------------------|---------------|
| Max. Payload on Wrist              |     | 16 kg                 |               |
| Reach                              |     | 3240 mm               |               |
| Repeatability                      |     | ±0.15 mm              |               |
| Motion Range<br>&<br>Maximum Speed |     | Motion Range          | Maximum Speed |
|                                    | J 1 | ±180°                 | 140°/sec      |
|                                    | J 2 | +70°/-135°            | 140°/sec      |
|                                    | J 3 | +175°/-80°            | 165°/sec      |
|                                    | J 4 | ±360°                 | 500°/sec      |
|                                    | J 5 | ±120°                 | 350°/sec      |
|                                    | J 6 | ±360°                 | 900°/sec      |
| Allowable Load<br>Moment at Wrist  | J 4 | 41 N·m                |               |
|                                    | J 5 | 41 N·m                |               |
|                                    | J 6 | 23 N·m                |               |
| Allowable Load<br>Inertia at Wrist | J 4 | 1.6 kg·m <sup>2</sup> |               |
|                                    | J 5 | 1.6 kg·m <sup>2</sup> |               |
|                                    | J 6 | 0.3 kg·m <sup>2</sup> |               |

[illegible]

\*The final interpretation right belongs to EFORT Intelligent Robot Co., Ltd. Any updates will be made without prior notice.

| Structure                |                | 6-Axis Series Structure   |
|--------------------------|----------------|---------------------------|
| Installation             |                | Floor                     |
| Safety Level             |                | EN ISO13849 PLd           |
| IP Grade                 | Robot          | IP 65                     |
|                          | Cabinet        | IP 54                     |
| Explosion-Proof          | China          | /                         |
|                          | ATEX-Gas       | /                         |
|                          | ATEX-Dust      | /                         |
| Environment Requirements | Voltage        | AC380V(±10%)              |
|                          | Power Capacity | 5.0 kVA                   |
|                          | Temperature    | 0-45 °C                   |
|                          | Humidity       | 20-80RH (No Condensation) |
| Arm Payload              | Outer Arm      | 5 kg                      |
|                          | Inner Arm      | 5 kg                      |
| Weight                   | Robot          | 600 kg                    |
|                          | Cabinet        | 160 kg                    |

Technical drawings of the J5 axis machine showing dimensions and load capacity.

**Dimensions:**

- Front View: Total width 1450, Control panel width 1025, Machine body width 608, Total height 1168, Machine body height 106.
- Side View: Total width 588.
- Top View: Machine body width 608, Control panel width 1025, Total width 1450.

**Load Capacity Chart:**

The chart shows the relationship between the distance from the center of the J6 axis (Y-axis, 0.2 to 0.6 m) and the distance from the center of the J5 axis (X-axis, 0.3 to 0.7 m). The load capacity (KG) is indicated by the curves.

| Distance from center of J6 axis (m) | Distance from center of J5 axis (m) | Load Capacity (KG) |
|-------------------------------------|-------------------------------------|--------------------|
| 0.2                                 | 0.3                                 | 16KG               |
| 0.2                                 | 0.4                                 | 12KG               |
| 0.2                                 | 0.5                                 | 10KG               |
| 0.2                                 | 0.6                                 | 8KG                |
| 0.3                                 | 0.3                                 | 16KG               |
| 0.3                                 | 0.4                                 | 12KG               |
| 0.3                                 | 0.5                                 | 10KG               |
| 0.3                                 | 0.6                                 | 8KG                |
| 0.4                                 | 0.3                                 | 12KG               |
| 0.4                                 | 0.4                                 | 10KG               |
| 0.4                                 | 0.5                                 | 8KG                |
| 0.4                                 | 0.6                                 | 6KG                |
| 0.5                                 | 0.3                                 | 10KG               |
| 0.5                                 | 0.4                                 | 8KG                |
| 0.5                                 | 0.5                                 | 6KG                |
| 0.5                                 | 0.6                                 | 4KG                |
| 0.6                                 | 0.3                                 | 8KG                |
| 0.6                                 | 0.4                                 | 6KG                |
| 0.6                                 | 0.5                                 | 4KG                |
| 0.6                                 | 0.6                                 | 2KG                |

**Machine Dimensions:**

- Machine body width: 608
- Control panel width: 1025
- Total width: 1450
- Machine body height: 106
- Total height: 1168
- Side view width: 588
- Top view width: 168.8

| Item               | Standard         | Optional           |                |
|--------------------|------------------|--------------------|----------------|
| Driver             | 6 Axes           | 6+2~4 Axes         |                |
| Connector Cable    | Static           | Static             | Flexible       |
|                    | 8 m              | Max:30 m           |                |
| Pendant            | 10 m             | Max:30 m           |                |
| DI/DO              | 12/12            | Customized         |                |
| Safety DI/DO       | /                | /                  |                |
| AI/AO              | /                | Customized         |                |
| Communication Mode | TCP/IP           | Profibus Slave     | ProfiNet Slave |
| Memory Capacity    | 1GB              | /                  |                |
| Connector          | USB/TCP/IP       | /                  |                |
| Software Package   | Painting Package | Visual Programming |                |
| Program Mode       | Pendant          | Touch Panel        |                |
| Color              | RAL6018          | Customized         |                |

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